GOLOVLEV, P.; PTUSHKO, G.

Reader's suggestions. Fin.SSSR 21 no.4:81-82 Ap '60.
(MIRA 13:4)

1. Kontroler-revizor Kontrol'no-revizionnogo upravleniya Ministerstva finansov RSFSR po Stalingradu (for Golovlev). 2. Starshiy kontroler-revizor Kontrol'no-revizionnogo upravleniya Ministerstva finansov USSR po Luganisku(for Ptushko).
(Stalingrad Province--Gas, Natural)
(Ukraine--Service industries--Finance)

GOLOVLEV, Sergey Georgiyevich, kand. tekhn. nauk; LEVITSKIY, V.S., kand. tekhn. nauk, retsenzent; SOLNTSEVA, T.Ye., kand. tekhn. nauk, red.; MODEL', B.I., tekhn. red.

[Development of the elements of equipment and piping; manual on analytic methods for the determination of dimensions] Razvertki elementov apparatury i truboprovodov; spravochnoe posobie po analiticheskim metodam opredeleniia razmerov. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1961. 211 p.
(MIRA 15:2)
(Laying out (Machine-shop practice))—Graphic methods)

GOLOVLEV, V. D.

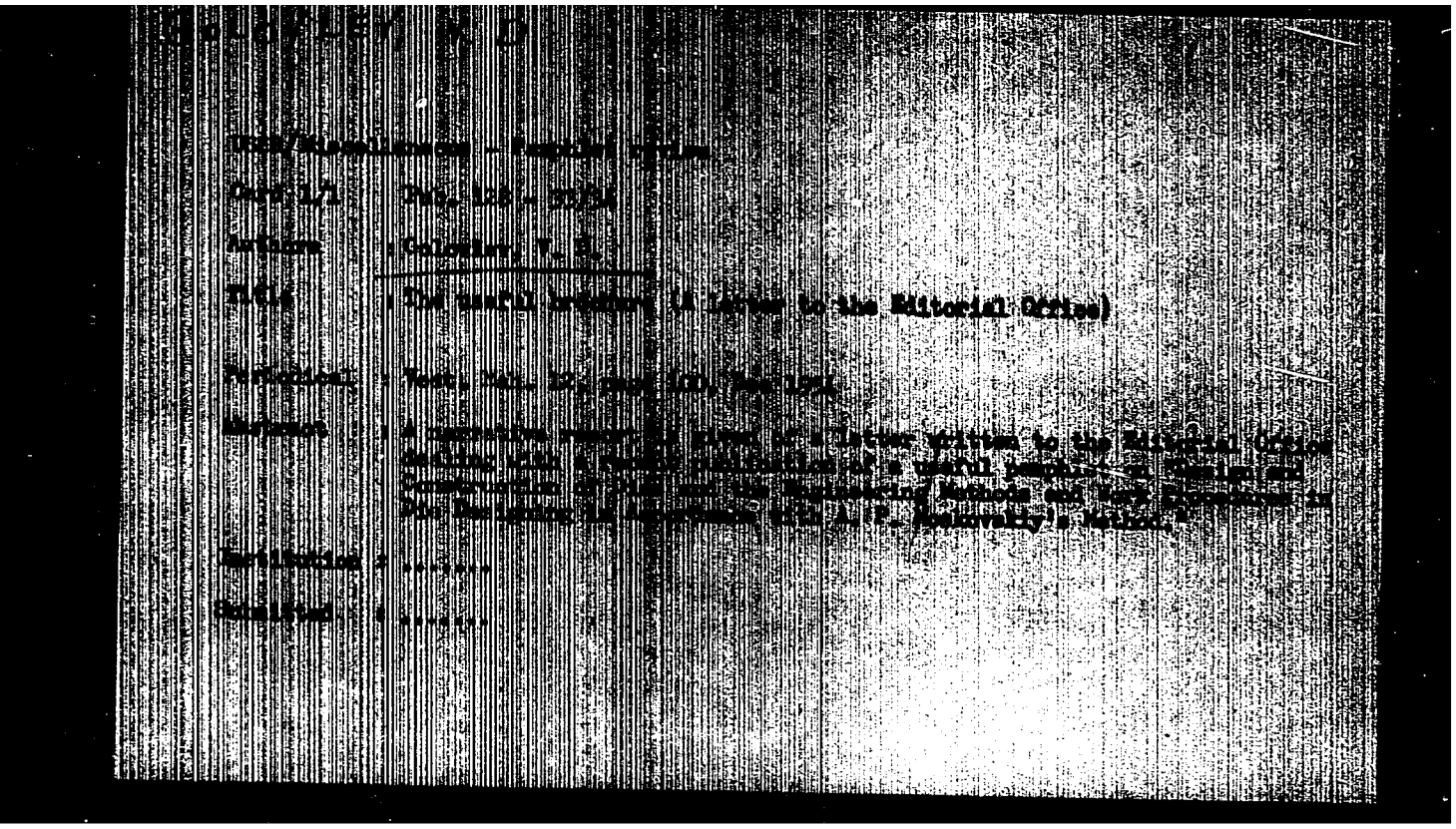
"Investigation of the Punching-Piercing Process." Thesis for degree of Cand. Technical Sci. Sub 23 Nov 49, Moscow Machine Tool Inst imeni I. V. Stalin

KDD Summary 82, 18 Dec 52, Dissertations Presented For Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva. Jan-Dec 1949.

GOLOVLEV, V.D.

ROVINSKIY, G.N.; ALABIN, S.V.; FILIPPOV, V.V.; KALACHEV, K.A.; ZYBIN, V.G., GOLOVLEV, V.D., kandidat tekhnicheskikh nauk, redakter; MOSKL', B.I., tekhnicheskiy redakter.

[Cold die stamping in the machinery industry] Kholodnaia shtampovka v mashinostroenii. Pod red. V.D.Golovleva. Moskva, Ges. nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1954. 279 p. (MIRA 8:5)
(Dies (Metal-Working)) (Forging)



GOLOVLEV, V.D., dotsent, kandidat tekhnicheskikh nauk; DMITRIYEV, N.A., kandidat tekhnicheskikh nauk; KASHENKOV, M.A., dotsent, kandidat tekhnicheskikh nauk; OSTROVSKIY, Ya.I., inshener; TAMBOVTSEV, S.P., dotsent, kandidat tekhnicheskikh nauk; FUFAYEV, L.S., kandidat tekhnicheskikh nauk; SHEPTUNOV, K.K., dotsent, kandidat tekhnicheskikh nauk.

"Metallurgy." A.N.Gladilin and others. Reviewed by V.D.Golovlev and others. Vest.mash. 34 no.11:103-106 N '54. (MLRA 7:11)
(Metallurgy) (Gladilin, A.N.)

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 12, p 73 (USSR) SOV/137-58-12-24462

AUTHOR: Golovlev, V. D.

TITLE: Stress in Hot Piercing of Deep Holes (Usilive pri goryachev probivke glubokikh otverstiy)

PERIODICAL: Tr. Kafedry "Tekhnol. metallov". Mosk. stankoinstrum. in-t, 1957, Nr 1, pp 9-13

ABSTRACT: The hot piercing (HP) of deep round holes (H) (t/d $\geq$ 2, where t is the thickness of the part to be pierced and d is the H diameter) is examined as a plane problem in plasticity theory. The method of characteristics is used to determine the P stresses. Investigation of the characteristic curves and equations for them yields the conclusion that, on the HP of deep H, P=Fp, P being the HP force, F the area of the pierced hole, and p the unit pressure in a steady process. The force does not depend upon the thickness of the material. The thickness of the waste is equal to the diameter of the pierced H. Under practical conditions, the waste will be somewhat thicker than this owing to the presence of contact friction. An experiment was conducted in the piercing of a Pb sample, d=20 and t=63, the results of which confirm the theoretical conclusions. I. G.

Card 1/1

MESHCHERIN, V.T., prof., doktor tekhn.nauk, otv.red.; GOLOVLEV, V.D., dotsent, kand.tekhn.nauk, red.; LANSKOY, Ye.N., dotsent, kand. tekhn.nauk, red.; SOBOLEV, G.N., red.izd-va; MODEL', B.I., tekhn.red.

[New methods in the technology of high-production die stamping; a collection of conference papers] Novoe v tekhnologii vysokoproizvoditel'noi listovoi shtampovki; sbornik trudov konferentsii. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 225 p. (MIRA 12:5)

1. Moskovskiy dom nauchno-tekhnicheskoy propagandy imeni F.E. Dzerzhinskogo, Moscow. 2. Stankoinstrumental'nyy institut, Moskva (for Meshcherin, Lanskoy).

(Sheet-metal work)

Golubev V.D.

PHASE I BOOK EXPLOITATION SOV/5013

Akademiya nauk SSSR. Institut mashinovedeniya

Issledovaniya v oblasti obrabotki metallov davleniyem (Investigations in the Field of Metal Pressworking) Moscow, Izd-vo AN SSSR, 1960. 66 p. Errata slip inserted. 4,200 copies printed.

Resp. Ed.: A.D.Tomlenov; Ed. Of Publishing House: G.Ye. Pevzner; Tech. Ed.: S.P. Golub'.

PURPOSE: This collection of articles is intended for engineers, designers, and scientific research workers engaged in the plastic working of metals.

COVERAGE: Articles of the collection deal with the following problems: tensile stresses in metal during forging and cross-rolling; deformation of a membrane in bulging by hydraulic pressure; intensification of plastic deformation in stamping; contact area under the state of stress in helical cross-rolling on a three-roll mill; testing of sheet steel for biaxial tension by the method of bulging a membrane under hydraulic pressure; deformability of sheet steel; determination of the quality of industrial lubricants used in the cold stamping of sheet steel;

Card 1/5

Investigations in the Field (Cont.) SOV/5013

determination of the quality of carbon sheet steel; and the temperature field of a blank in the hot stamping of steel plates. No personalities are mentioned. Each article contains conclusions based on investigations. References, predominantly Soviet, accompany most of the articles.

TABLE OF CONTENTS:

Card 2/3

ROVINSKIY, G.N.; GOLOVLEV, V.D.

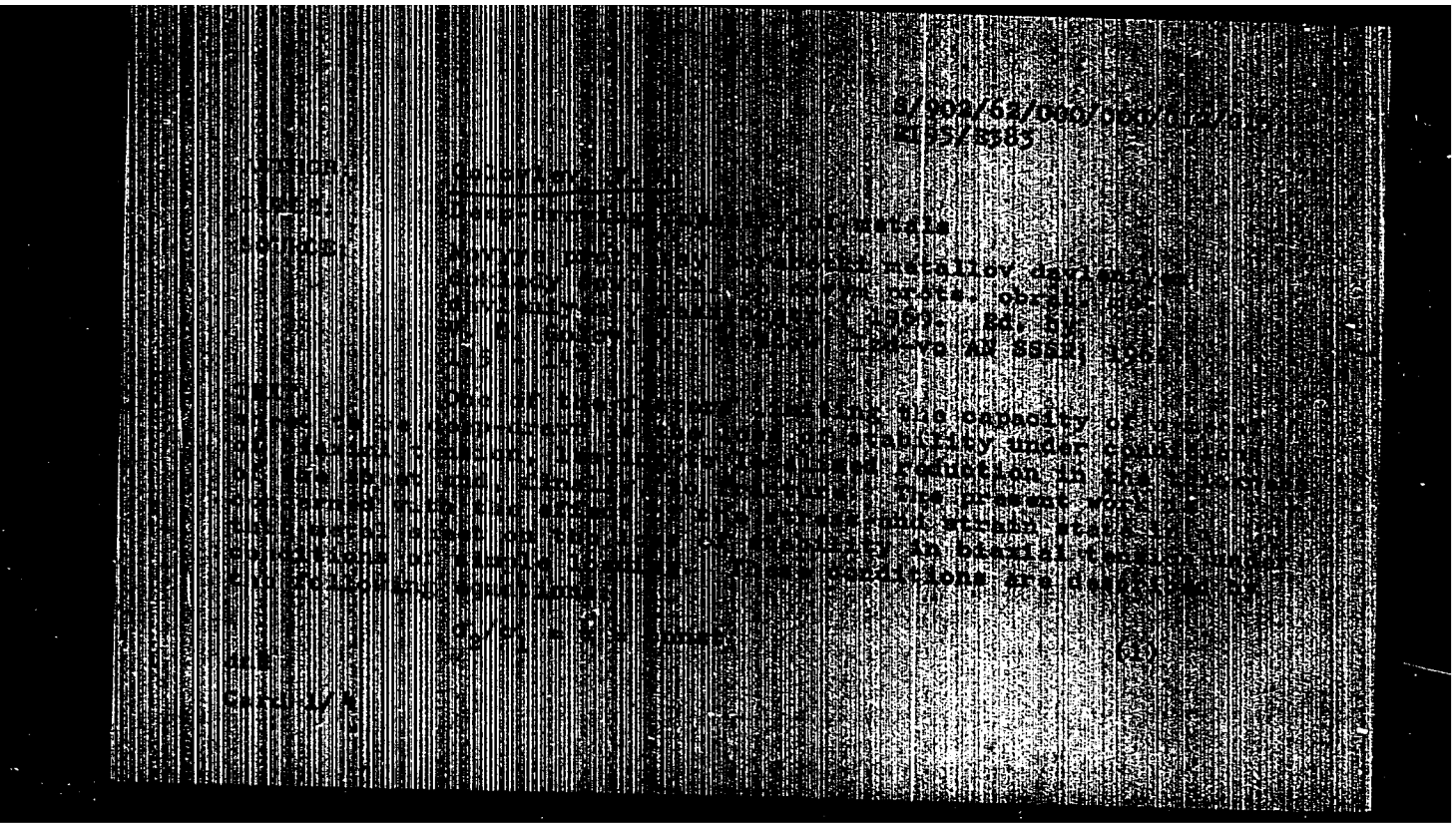
"Dies for sheet-metal work" by V. I. Kukhtarov, O. V. Kukhtarov. Reviewed by G. N. Rovinskii, V. D. Golovlev. Kuz.-shtam. proizv. 3 no.3:45-46 Mr '61. (MIRA 14:6)

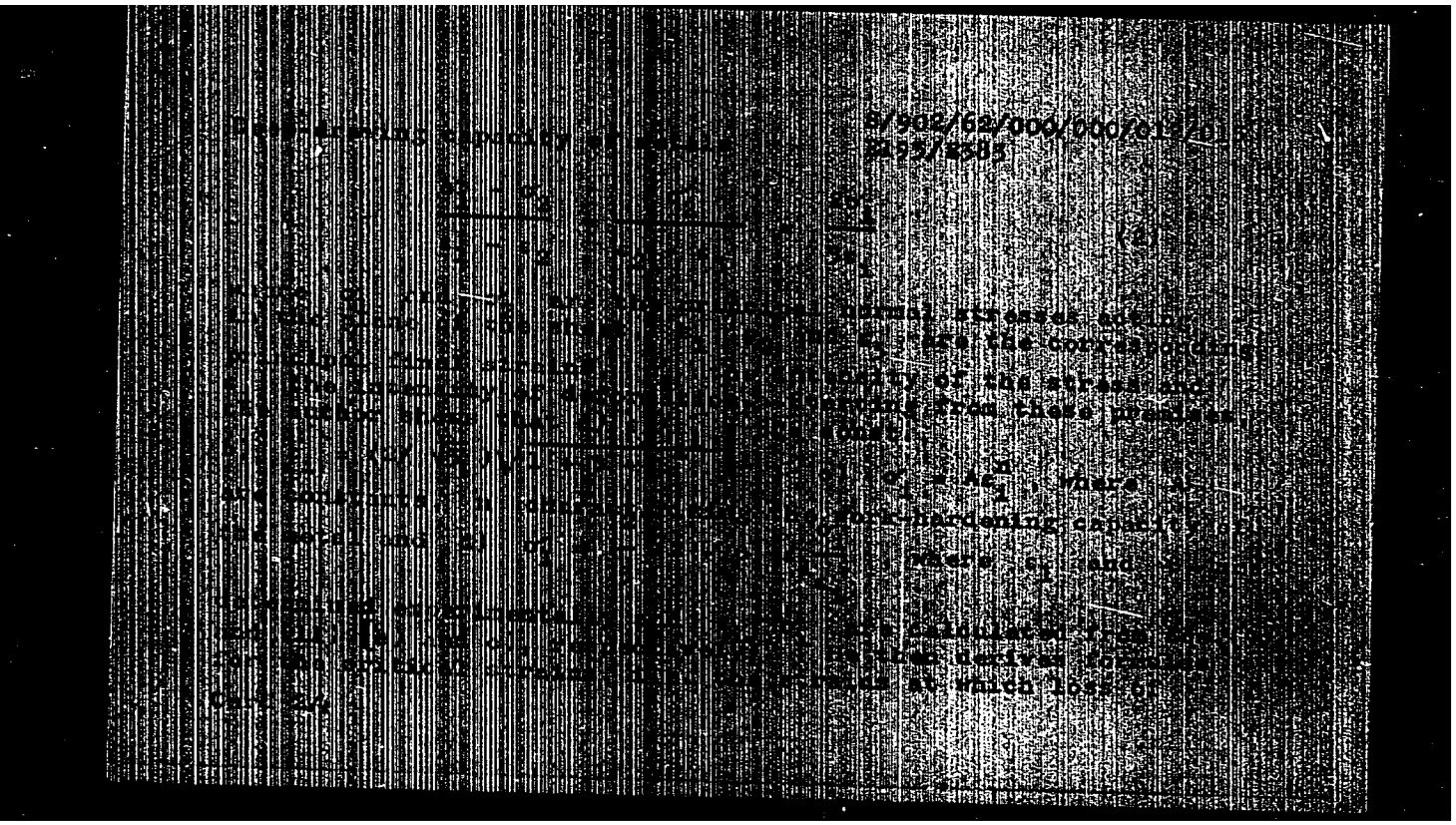
(Dies (Metalworking))
(Sheet-metal work)
(Kukhtarov, V.I.) (Kukhtarov, O.V.)

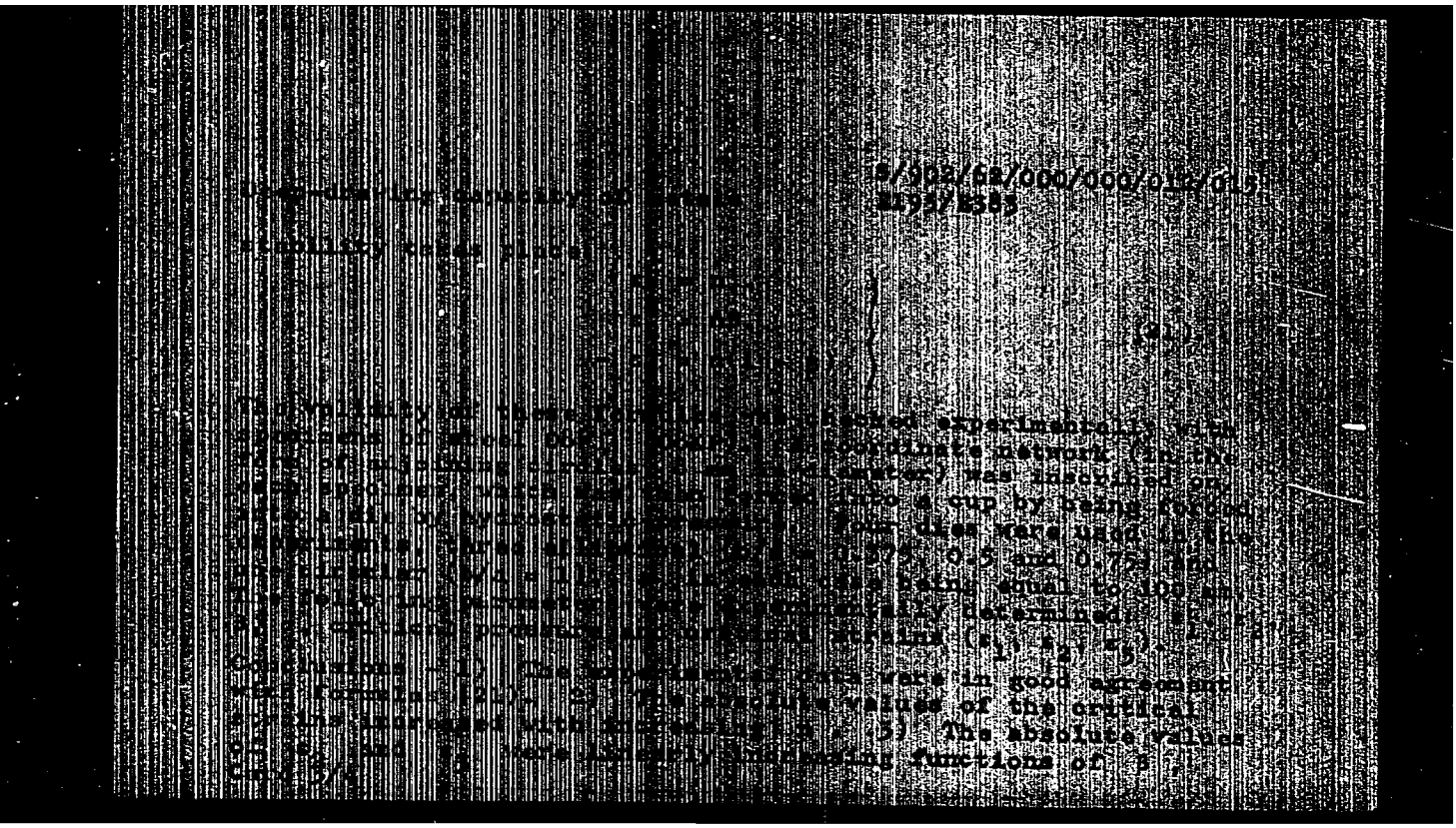
GOLOVLEV, V.D., kand. tekhn. nauk, otv. red.; RZHEVSKIY, V.F., red. izd-va; KYLINA, Yu.V., tekhn. red.

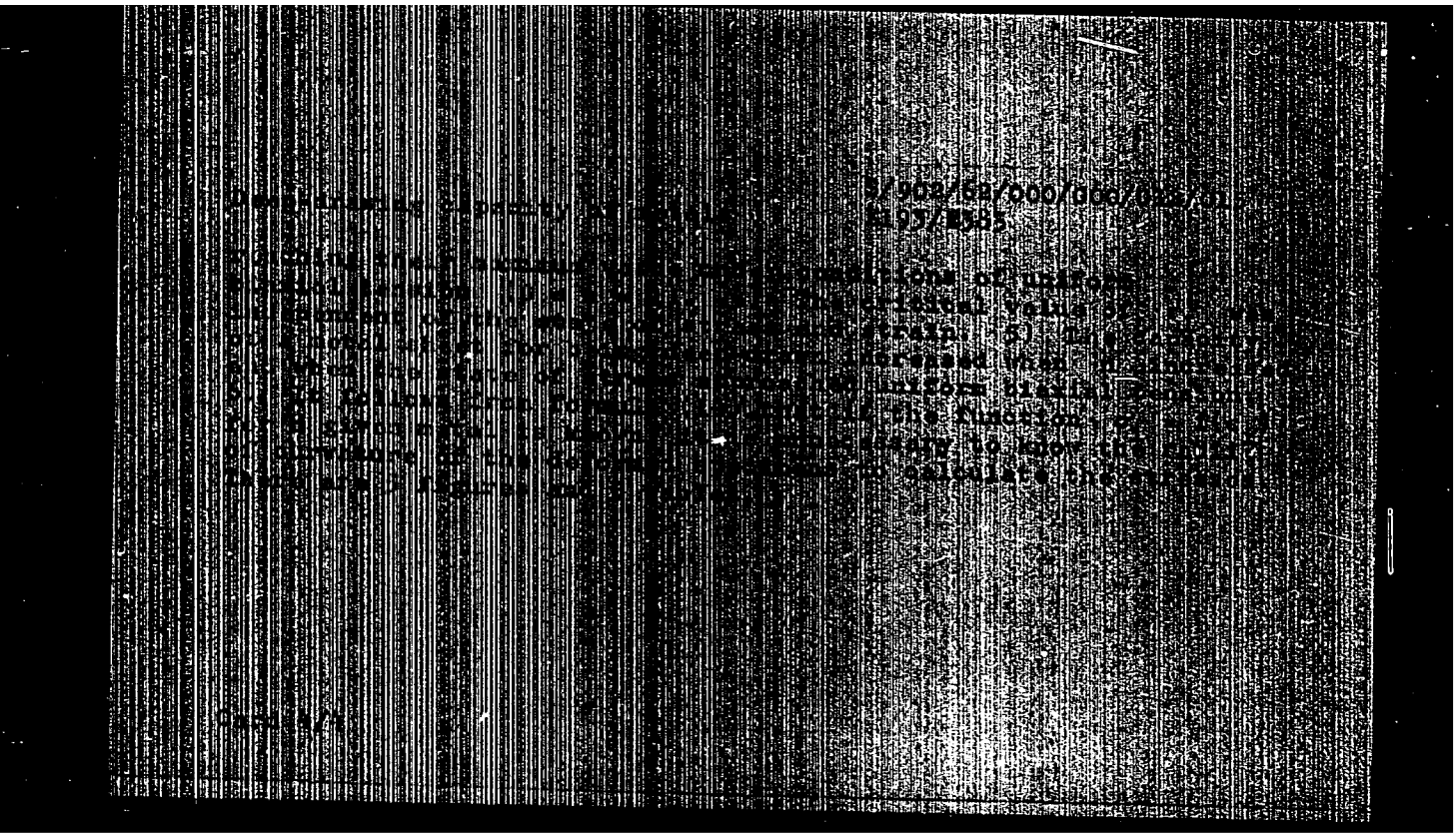
[New processes of working metals by pressure]Novye protsessy obrabotki metallov davleniem; [materialy]. Moskva, Izd-vo Akad. nauk SSSR, 1962. 186 p. (MIRA 16:2)

1. Soveshchaniye po novym protsessam obrabotki metallov davleniyem v mashinostroyenii, Moscow, 1960.
(Rolling (Metalwork)) (Forging) (Sheet-metal work)







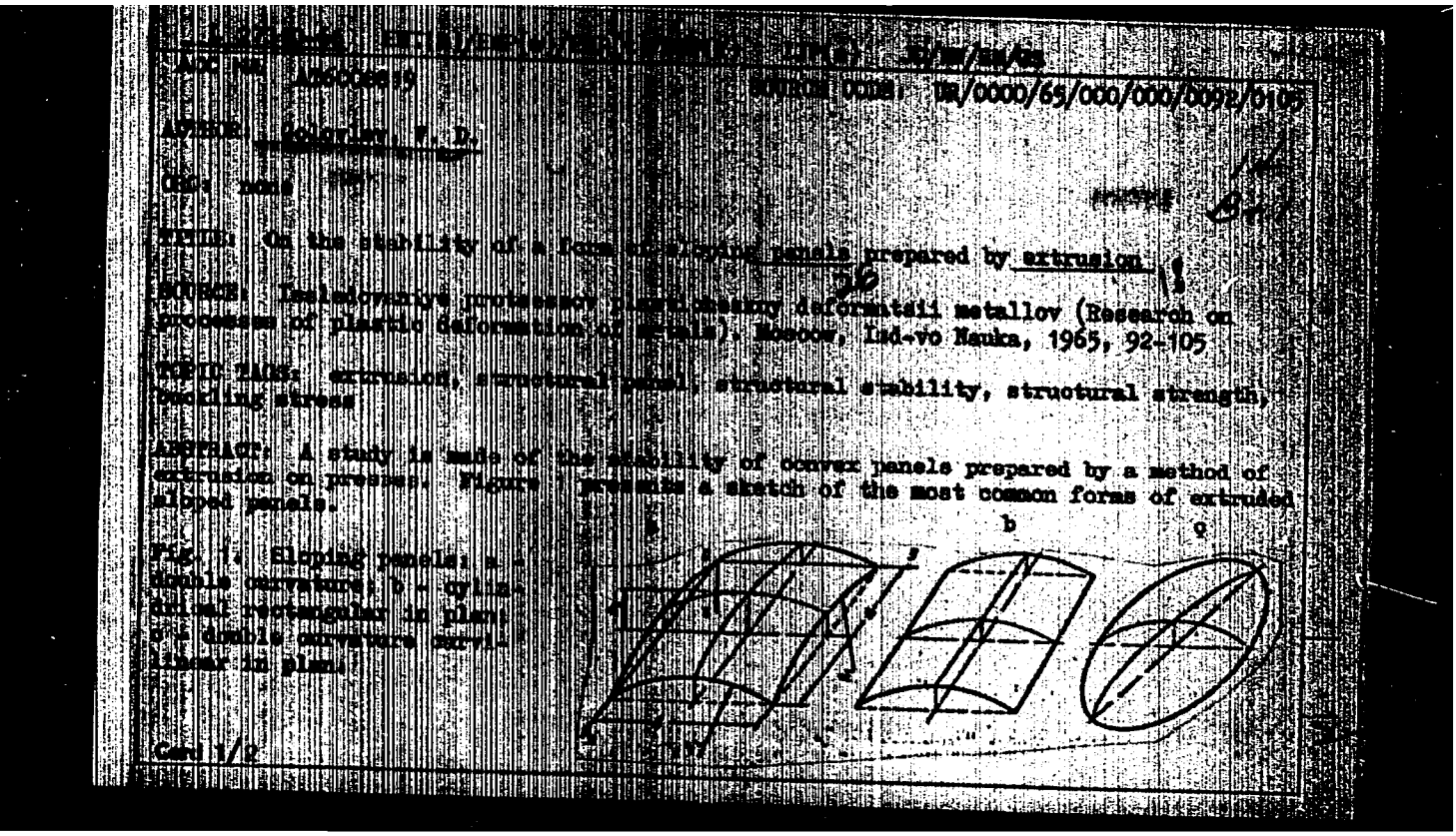


SHUKHOV, Yuriy Vladimirovich; YELEMEV, Sergey Alekseyevich; GOLOVLEV, V.D., nauchn. red.; KOLOSOV, V.N., red.; DORODNOVA, L.A., tekhn. red.

[Sheet-metal work and cold forging] Kholodnaia shtampovka. Moskva, Profitekhizdat, 1963. 274 p. (MIRA 17:1)
(Sheet-metal work) (Forging)

GOLOVLEV, V.D.

Strength of compressed and extended areas of a blank curing drawing. Kuz.-shtam.proizv. 6 no.1:16-20 Ja '64. (MIRA 17:3)



AUTHOR: Alekseyev, P. D.

TITLE: On the stability of a form of [illegible] panels prepared by extrusion.

SOURCE: Issledovaniya [illegible] deformatsii metallov (Research on processes of plastic deformation of metals). Moscow, Izd-vo Nauka, 1965, 92-105

TOPIC TAGS: extrusion, structural panel, structural stability, structural strength, buckling stress

ABSTRACT: A study is made of the stability of convex panels prepared by a method of extrusion on presses. Figure 1 presents a sketch of the most common forms of extruded ribbed panels.

Fig. 1. Sloping panels: a - double curvature; b - cylindrical, rectangular in plan; g - double curvature surface, ribbed in plan.

Card 1/2

ACC NR: AT6008619 [illegible]

A geometric criterion for sloped panels is $h_0 \leq 1/5\ b$, where h_0 is the pitch elevation of the panel, and b is the [illegible] dimension of the panel in plan. It is [illegible] that the panel is [illegible] in the direction of convexity and undergoes [illegible] elastic [illegible]. The loss of stability is that point at which the [illegible] properties of the panel [illegible] change and the structure buckles as shown in Fig. 2.

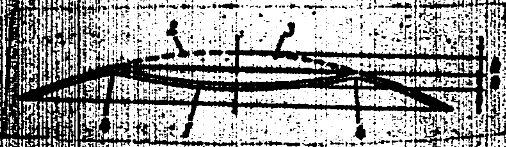


Fig. 2. [illegible] of buckling of a panel. [illegible] 3 - cutting plane; 4 - [illegible] of buckling.

The [illegible] shape is [illegible] the "mirror image" of the original undeformed panel. [illegible] loading and strain (buckling) characteristics are plotted for several [illegible] cases of panel curvature. The author also develops the system equations [illegible] of this type of structure. The system can be described by the major [illegible] of the panel, geometrical dimensions, and the physical properties [illegible] bearing capacities are derived [illegible] loading each are described. [illegible] discussed, and the number of [illegible] Orig. art. has: 16 equations [illegible]

SUB CODE: [illegible] / SUBM DATE: [illegible] / ORIG REF: 015

L 34743-66 EWT(m)/EWP(k)/EWP(t)/ETI IJP(c) JD/HW
ACC NR: AP5025216 SOURCE CODE: UR/0380/66/000/002/0112/0120

AUTHOR: Golovlev, V. D. (Moscow)

ORG: none

TITLE: Stability of biaxial extension of an anisotropic sheet

SOURCE: Mashinovedeniye, no. 2, 1966, 112-120

TOPIC TAGS: anisotropic medium, tensile strength, metal deformation, sheet metal, plastic deformation, metal hardening, metal rolling

ABSTRACT: An investigation into the biaxial tensile deformation of an anisotropic metal sheet. Formulas are produced which define the critical deformation. The critical deformation with plastic deformation of an anisotropic metal sheet is seen to depend on the hardening on the metal and on the factor m_c. This factor is in turn partially determined by the angle between the axes of deformation and the original axis along which the sheet was rolled in its manufacture. It is demonstrated that ignoring the anisotropy in properties of deformation in a rolled sheet can lead to mis-estimation of the critical deformation by as much as 50%. Orig. art. has: 4 figures and 37 formulas. [JPRS: 35,995]

SUB CODE: 20, 13 / SUBM DATE: 19Oct65 / ORIG REF: 010 / OTH REF: 004

Card 1/1 ALG UDC: 620.1/539.382

GOLOVLEV V. YA.

SERGEYEV, A.A., red.; ANPILOGOV, I.M., red.; ASSONOV, V.A., red.; BABAYANTS, N.A., red.; BABOKIN, I.A., red.; BALAKUTOV, A.D., red.; BOGOROD-SKIY, N.N., red.; BOLOMENKO, D.N., red.; BUCHNEV, V.K., red.; VAKHMISTSEV, G.S., red.; VORONKOV, A.K., red.; GARKALENKO, K.I., red.; GORBATOV, P.Ye., red.; GOLOVLEV, V.Ya., red.; DOKUCHAYEV, M.M., red.; DUBNOV, L.V., red.; YEVTEYEV, A.D., red.; YEREMENKO, Ye.K., red.; ZENIN, N.I., red.; KRIVONOGOV, K.K., red.; KUPALOV-YAROPOLK, I.K., red.; MATSYUK, V.G., red.; NIKOLAYEV, S.I., red.; ONISHCHUK, K.N., red.; PETROV, K.P., red.; PILYUGIN, B.A., red.; PLATONOVA, A.A., red.; POLESIN, Ya.L., red.; POKROVSKIY, L.A., red.; POMERUN, D.Ye., red.; POLYUSHKIN, A.Kh., red.; REYKHER, V.P., red.; SEDOV, N.A., red.; SIDORENKO, I.T., red.; FIDKLEV, A.A., red.; CHAKHMAKHCHEV, A.G., red.; CHERNODUROV, M.Ya., red.; SHUMAKOV, A.A., red.; YARE-MENKO, N.Ye., red.; PARTSEVSKIY, V.N., red.izd-va; ATTOPOVICH, M.K., tekhn.red.

[Standard safety regulations for blasting operations] Edinye pravila bezopasnosti pri veryvnykh rabotakh. Izd.2. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1958. 318 p. (MIRA 13:1)

1. Russia (1923- U.S.S.R.) Komitet po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru.
(Mining engineering--Safety measures)

SHILOVA, S.A.; CHABOVSKIY, V.I.; MOROZOV, Yu.V.; SIMKIN, G.N.; VASIL'YEV, B.D.; KRYLOV, D.G.; GOLOVLEV, Ye.L.

Epizootiological importance of birds in foci of tick-borne encephalitis in the Central Urals. Ornitologiia no.6:126-139 '63. (MIRA 17:6)

IYERUSALIMSKIY, N.D.; ANDREYEVA, Ye.A.; GRISHANKOVA, Ye.L.; GOLOVLEV, Ye.L.; DOROFHOV, V.V.; ZHUKOVA, L.N.

Study of microflora of refinery waste waters. Prikl. biokhim. i mikrobiol. 1 no.2:163-166 Mr-Ap '65. (MIRA 18:11)

1. Institut mikrobiologii AN SSSR, Moskva.

L 36092-66 EWT(m)/T WB

ACC NR: AP6015206 (A) SOURCE CODE: UR/0411/65/001/002/0163/0166

AUTHORS: Iyerusalimskiy, N. D.; Andreyeva, Ye. A.; Grishankova, Ye. L.; Golovlev, Ye. L.; Dorokhov, V. V.; Zhukova, L. N.

53
B

ORG: Institute of Microbiology, Academy of Sciences, SSSR, Moscow (Institut mikrobiologii Akademii nauk SSSR)

TITLE: A study of the microflora of sewage of petroleum refineries

SOURCE: Prikladnaya biokhimiya i mikrobiologiya, v. 1, no. 2, 1965, 163-166

TOPIC TAGS: bacteria, fuel microorganism, industrial waste, petroleum refining, yeast, aromatic hydrocarbon, diesel fuel, kerosene

ABSTRACT: The results of a study of active slime from petroleum refineries are given. Active slimes from waste phenolic water and from oil traps (purified of petroleum by six-fold extraction by benzene) were studied. Recent and old slimes from oil refinery No. 4 and a sample of slime from the trap of No. 4 were also studied. The specimens were kept in the active state in Sëngen's medium at pH 7. From the slimes, 575 cultures were extracted, and 145 other cultures were extracted from similar sources. The mycobacteria were 44%, the bacteria 28%, and yeast 26%. All the bacteria were gram-negative nonspore-forming. They were represented mostly by Pseudomonas and Achromobacter. The yeasts were Candida and Torulopis. All of the extracted microorganisms grew well in pure kerosene, pure paraffin, diesel-fuel distillate, and

Card 1/2

UDC: 622.35+613.663

L 36092-66
ACC NR: AP6015206

paraffin-base petroleum. It was found that only certain mycobacteria and bacteria grow in aromatic hydrocarbons. Orig. art. has: 3 tables.

SUB CODE: 06/11/ SUBM DATE: 18Jan65/ ORIG REF: 003/ OTH REF: 009

LS
Card 2/2

KOST, A.N.; TURCHINTSEV, P.B.; GOLOVLEVA, L.A.

Synthesis of 5-ethylpicolinic acid. Vest. Mosk. un-t. Ser. 2: Khim. 19 no.6:56-59 N-D '64. (MIRA 18:3)

1. Kafedra organicheskoy khimii Moskovskogo universiteta.

KOST, A.N.; TERENT'YEV, P.B.; GOLOVLEVA, L.A.

5-Ethylpicolinic acid. Metod. polnch. khim. reak. i prepar. no.11:110-113 '64. (MIRA 18:12)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova. Submitted April, 1964.

ACC NR: AP6029025 SOURCE CODE: UR/0413/66/000/014/0025/0025

INVENTOR: Mandel'baum, Ya. A.; Abramova, G. L.; Golovleva, L. M.; Mel'nikov, N. N.

ORG: none

TITLE: Preparation of alkylamides of O-alkylchlorothiophosphoric acid. Class 12, No. 183753 [announced by All-Union Scientific Research Institute of Chemicals for Plant Protection (Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh sredstv zashchity rasteniy)]

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 25

TOPIC TAGS: insecticide, ~~alkylchlorothiophosphoric acid amide~~ phosphoric acid, organic amide

ABSTRACT: To simplify the process of the preparation of alkylamides of O-alkylchlorothiophosphoric acid by the treatment of alkyl dichlorophosphates with alkylamines at temperatures ranging from -5 to -10°C, with subsequent distillation, the process is carried out in the presence of an aqueous alkali. [WA-50; CBE No. 11]

SUB CODE: 07/ SUBM DATE: 08Jul65/

Card 1/1 UDC: 547.419.1.07

ACC NR: AP6030564 SOURCE CODE: UR/0413/66/000/016/0034/0034

INVENTOR: Mandel'baum, Ya. A.; Abramova, G. L.; Golovleva, L. M.; Mel'nikov, N. N.

ORG: none

TITLE: Preparation of O-ethyl S-phenyl dithiophosphoric acid n-butylamide. Class 12, No. 184861 [announced by All-Union Scientific Research Institute of Chemicals for Plant Protection (Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh sredstv zashchity rasteniy)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 34

TOPIC TAGS: ~~ethyl phenyl dithiophosphoric acid n-butylamide~~, triethylamine, alkyl chlorothiophosphoric acid, phosphoric acid, phenyl compound, chemical reaction

ABSTRACT: To increase the yield of O-ethyl S-phenyl dithiophosphoric acid n-butylamide in its preparation from thiophenol, O-alkyl chlorothiophosphoric acid amide, and triethylamine, the reaction is conducted with an eight-fold excess of triethylamine. [WA-50; CBE No. 11]

SUB CODE: 07/ SUBM DATE: 08Jul65/

Card 1/1 UDC: 547.419.1.07

RODE, Ye.Ya.; GOLOVLEVA, Z.S.; KUZNETSOV, V.G.; KOZ'MIN, P.A.

Physicochemical study of hydrated peroxide compounds of uranium.
Zhur.neorg.khim. 6 no.12:2635-2648 D '61. (MIRA 14:12)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova, AN SSSR.

(Uranium oxide)

RODE, Ye.Ya.; GOLOVLEVA, Z.S.; KUZNETSOV, V.G.; KOZ'MIN, P.A.

Hydrated compounds in the system uranium trioxide - water. Zhur. neorg. khim. 8 no.12:2751-2772 D '63. (MIRA 17:9)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN SSSR.

USSR / Farm Animals. Honeybee. Q-7

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 64579

Author : Babich, I. A.; Golovnaya, I. T.
Inst : Ukrainian Experimental Station of Apiculture
Title : Management of Honeybees with Two Queens in One Beehive as a Method of Increasing the Production of Bee Colonies.

Orig Pub : Sb. nauchn. tr. Ukr. opytn. st. pchelovodstva, 1957, vyp.1, 27-38

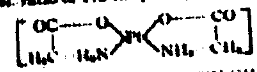
Abstract : In the experimental groups (10 families each), all year around two queens were kept in each horizontal beehive of 20-24 frames. The families were united only during the main harvesting period. As compared with one-queen families, in the experimental ones the strength was increasing 61.7 - 65.9% faster, and they were collecting 69.5 - 90.5% more honey and 56.7 - 97.2% more beeswax.

Card 1/1

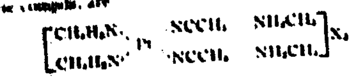
GOLOVNAYA, V. A.
CA

6

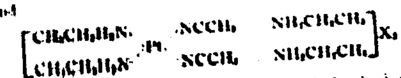
Compounds of platinum with nitriles. IV. V. V. Lebedinskii and V. A. Golovnya. *Izvest. Sektora Platiny i Drugikh Blagorod. Metal., Inst. Obshchei i Neorg. Khim., Akad. Nauk S.S.S.R.* No. 21, 32-42(1948); cf. C.A. 44, 8000d.—The structure of diacetonitrile Pt II chloride (I) was confirmed. When I was treated with glycine in a mol. ratio of 1:2 the principal product was



a small amt. of [Pt(CH$_3$CN)$_2$NH$_2$CH$_2$COOH)$_2$]Cl$_2$ also was formed. With ethylenediamine I produced (after pptn. with K$_2$PtCl$_4$) [Pt(C$_2$H$_4$(NH$_2$)$_2$)$_2$(CH$_3$CN)$_2$][PtCl$_4$]. With methylamine in excess and after pptn. with K$_2$PtCl$_4$ the product was [Pt(CH$_3$CN)$_2$(CH$_3$NH$_2$)$_4$][PtCl$_4$]. With ethylamine under similar conditions the product was [Pt(CH$_3$CN)$_2$(C$_2$H$_5$NH$_2$)$_4$][PtCl$_4$]. MeNH$_2$ and EtNH$_2$ not only replaced the Cl in the inner complex but attached 2 extra mols. to the acetonitrile, thus forming Pt complexes with a pseudo-coördination number of 6. The structures assigned to these compds. are



and



On heating with 10% HCl the tetra(methylamine) and tetra(ethylamine) compds. lose 2 mols. of the acetonitrile attached to the nitriles, which are replaced by Cl. The 2 mols. of MeNH$_2$ or EtNH$_2$ attached to the Pt remain undisturbed. With pyridine I yielded [Ptpy$_4$]X$_2$.

M. Hosch

GOLOVNAYA, V.A.
CA

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Solution of metallic rhodium. N. K. Pshenitsyn and V. A. Golovnaya. *Izvest. Sektora Platiny i Drugikh Blagorod. Metal., Inst. Obshchei i Neorg. Khim., Akad. Nauk S.S.S.R.* No. 22, 111-18(1948).—The method is a modification of the Hefts method (cf. *Ann. Chem. u. Pharm.*, B CXLV, 144, 271(1868)) and consists of fusing Rh with Zn. Place a sample of Rh in a porcelain crucible, add 20 times its wt. of granulated Zn, and cover with a well-tamped layer of flux consisting of approximately mixed $NaCl$ 50 and KCl 50%. The salts used for the flux should be thoroughly dry and their combined wt. should be twice the wt. of Zn. Cover with a porcelain lid, place the crucible in a cold or slightly heated crucible furnace, raise the temp. to 700°, and keep at this temp. for 8 hrs. Remove from the furnace, cool, place in a large beaker, add a 5% HCl soln., cover with watch glass, and keep until all the unconsumed Zn dissolves. Wash the watch glass and beaker walls with hot H_2O and filter. The undissolved residue is Rh-Zn alloy. Wash the residue with hot H_2O, place the filter in an Erlenmeyer flask, add aqua regia (HNO_3 1 and HCl 3 parts), cover, and heat for 1 hr. Transfer to a porcelain dish, evap. to dryness on a water bath, add a few drops of concd. HCl, and again evap. Dissolve in hot H_2O and wash the filter with hot H_2O. The residue consists of silicates and Ir if present. Reduce Rh in the filtrate to metal by any of the known methods, filter, wash, dry, ignite, reduce in H, cool, and weigh. The steps in this procedure must be followed exactly. By this method 99.7-100% of Rh was dissolved in 1 fusion.

M. Hirsh

GOLOVNER, B. M.

Ultraviolet absorption spectra of unsaturated oxazolones. Yu. N. Sheinker and B. M. Golovner. *Doklady Akad. Nauk S.S.S.R.* 79, 169-72 (1951).—The spectra were detd. in 0.01-0.001 *M* solns. in alc. (in some cases in CCl_4) for 16 derivs. of O.CPh:N.C(:CHR).CO with R = Me (I); Cl (II); HO (III); KO (IV); EtO (V); NH_2 (VI); EtOCO-CH_2NH (VII); $MeC(S)$CH(CO_2R)NH (VIII); PhNH (IX); HS (X); KS (XI); MeS (XII); $PhCH_2$S (XIII); O.CPh:N.C(:CHS-).CO (XIV); MeCONHC(CO_2H.C_5H_5N)-HCH_2S (XV); —SCH.C(CO_2H.C_5H_5N)NHNH, or $HSCH_2$C-(CO_2H.C_5H_5N)NHNH— (XVI). All these compds. are characterized by 2 absorption bands, with the longer-wave band more intense. Examples of wave lengths (and absorption coeffs. log *K*) are I 3050 A. (4.3) and 2400 (4.0); II 3150 (4.0) and 2450 (4.0); V 3200 (4.1) and 2400 (3.0); VII, VIII 3480 (4.5) and 2800 (3.9); XII, XIII 3600 (4.6) and 2600 (4.2). By the absorption bands, the debated structure of phenylpenicillenic acid ester could be identified with VIII, and the structures of pyridine salts of cysteine derivs. with XV and XVI. The structures of XII and XIII, synthesized by a new method, were confirmed by the absorption spectra. Replacement of an alkyl by a metal (V and IV) shifts the long-wave absorption band to longer waves by 250 A.; the same replacement in mercapto derivs. (XII and XI) causes a shift by 400 A. Introduction of a phenyl group instead of an alkyl in *N*-substituted derivs. (IX) produces a shift by 450 A., and in *S*-substituted derivs. (XIV) by 600 A. to longer waves. Replacement of an alkyl by H shifts the long-wave band to shorter waves, by 50 A. in amino derivs. (VI) and by 200 A. in mercapto derivs. (X). In solns. of the latter and of its K salt (XI) in alc., the 2 bands disappear owing to opening of the oxazolone ring. The short-wave band is less sensitive to the substituting atom on the methylenic C atom and particularly to the structure of the whole substituent group; thus, in all amino derivs., this band remains at 2800, and in all mercapto derivs. at 2600 A. N. Thon

GOLOVNER, B. N.

[illegible] of [illegible] molecular weight of organic compounds [illegible]. Yu. N. Sheinker and [illegible] Research [illegible] Izvest. Akad. Nauk [illegible].—To obtain mol. wts. of [illegible] compds., groups with characteristic absorption are introduced into the mol. of the substance. The absorption of the [illegible] in another region than the absorption of the [illegible] compd. A suitable group is the picric acid radical. Picrates of 14 compds. were obtained and their mol. wts. detd. from absorption measurements and compared with mol. wts. derived from their formulas. The max. deviation was 3.3%. Another suitable group, especially for alkaloids, is the radical of picrolonic acid. The mol. wts. of [illegible], sophoridine (from [illegible] *pachycarpa*), sophoridine (from *Cuscuta*), and [illegible] were obtained and compared with their formulas. Styphnic acid can also be used as well as the Reinecke acid $H[Cr(NH_3)_2(SCN)_4]$. Mol. wts. of quinine, morphine, putrescine, salsoline, isothebaine, sphaerophysine, and [illegible] have been detd. by measuring their salts with the Reinecke acid. Methyl orange salts were formed from o-toluidine, and nitrophenylaminopropanediol, for detn. of mol. wts. Finally 2,4-dinitrophenylhydrazones from homopolar compds. can be used for the detn. of mol. wts. of [illegible]. Details of spectroscopic conditions for absorption measurements are indicated for each reagent. The max. error of the method is ±3%, and only 2 mg. of substance are required. S. Pakswer

USSR/Chemistry - Physical chemistry

Card : 1/1

Authors : [illegible]

Title : Determination of molecular (equivalent) weight of organic compounds with the aid of absorption spectra

Periodical : Zhur. fiz. khim. 28, Ed. 6, 997 - 1005, June 1954

Abstract : A method for the determination of the molecular (equivalent) weight of organic compounds, based on the measurement of the absorption spectra of derivatives of these compounds, is described. The applicability of this new method to certain classes of organic compounds was investigated and confirmed by determining the molecular weights of thirty-eight different compounds. The advantages and disadvantages of the method are outlined. Four USSR references. Tables; graphs.

Institution : The S. Ordzhonikidze Chemical-Pharmaceutical Institute, Moscow

Submitted : June 3, 1953

GOLOVNER, T. M.

USSR/Physics - X-ray Emission 11 Jun 53

"Multiplet Nature in the Spectra of X-ray Emission," I. B. Borovskiy and T. M. Golovner, Phys Faculty, Moscow State

DAN SSSR, Vol 88, No 2, pp 233-6

The purpose of the present article is to detn the possible no of components of the complex x-ray multiplet $M_{\alpha 1}$, $M_{\alpha 2}$, $M_{\beta 1}$ on the basis of original exptl data and computations. Presented by Acad A. A. Lebedev 14 Nov 52.

249T17

SOURCE CODE: UR/0051/66/021/005/0630/0637

AUTHOR: Koltun, M. M.; Golovner, T. M.

ORG: none

TITLE: Coating of silicon photocells with a translucent material

SOURCE: Optika i spektroskopiya, v. 21, no. 5, 1966, 630-637

TOPIC TAGS: semiconductor device, photoconductive cell

ABSTRACT: Results of the experimental and theoretical study of silicon photocells coated with a translucent material are given. The following translucent materials were used to coat the silicon photocells, employing the vacuum deposition method: MgF_2 (n = 1.36), SnO_2 (n = 2.0), SiO (n = 1.9), SiO_x (n = 1.7), SiO_2 (n = 1.44), CeO_2 (n = 2.2), and ZnS (n = 2.3). The n-index data are given for λ = 0.8 μ. Control glass specimems coated with translucent materials were used to evaluate absorption by the material. Absorption ranging from 2 to 3% at optical thickness d = 0.15 μ was established for SnO_2, ZnS, CeO_2, and SiO films in the 0.4—0.5 μ range only. The effectiveness of these materials as translucent coatings is only slightly affected by this low value of abosrption. Experimental study indicates that the use of translucent coatings increases the spectral sens tivity of silicon photocells and also improves their volt-ampere characteristics. g. 1 shows volt-ampere characteristics of single photocells before and after coating with MgF_2, SiO_2,

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UDC: 535.391.5:546.28

ACC NR: AP7000034

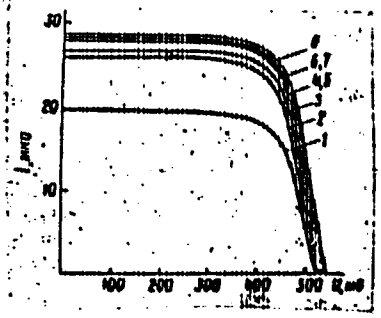

Fig. 1. Load volt-ampere characteristics of a silicon photocell before and after coating with translucent films (d = 0.15 μ)

1 - Noncoated photocell (efficiency = 7.6%); 2 - MgF_2 (9.6%); 3 - SiO_2 (10%); , 5 - CeO_2 and ZnS (10.5%); 6, 7 - SiO_x, SnO_2 (1 .7%); 8 - SiO (11.0%).

CeO_2, ZnS, SiO_x, SnO_2, and SiO films with d = 0.15 μ. Measureme. s were made using a simulator of solar radiation. A 41—44% increase in efficienc was observed for the photocells when SiO_x, SnO, and SiO films were applied. Orig. art. has: 4 formulas, 5 figures, and 1 table.

[GS]

SUB CODE: 09/ SUBM DATE: 14May65/ ORIG REF: 005/ OTH REF: 007/ ATD PRESS: 5110

Card 2/2

GOLOVNEV A. PA 44/49T12

USSR/Agriculture
Bibliography May 49

"Review of V. R. Vil'yams' Book, 'Collected Works,'" A. Golovnev, Cand Agr Sci, All-Union Sci Res Inst of Fertilizers, Agron and Agrol, 3 pp

"Sov Agron" No 5

Book is one of most important publications on theory and state of Soviet agrobiological sciences. Briefly discusses author's scientific background and praises the work. Recommends book for all scientists and amateurs in agricultural economy.

44/49T12

GALAKHOV, P.N.; SHUMAKOVA, A.A.; GOLOVNEV, A., spets. red.; MEL'NIKOVA, M.S., red.

[New poisonous chemicals for protecting farm crops against pests and diseases] Novye iadokhimikaty (dlia zashchity sel'skokhoziaistvennykh kul'tur ot vreditelei i boleznei. n.p.) Vystavka dostizhenii narodnogo khoziaistva SSR (n.d.) 22 p. (MIRA 17:5)

BALAYEV, Petr Mikhaylovich; KARPENKO, M.E., otv. za vypusk; GOLOVNEV, A.A., spets. red.; MEL'NIKOVA, M.S., red.; BALUNOV, A.A., tekhn. red.

[Turf-Podzolic soils and how to improve their fertility] Dernovo-podsolistye pochvy i puti povysheniia ikh plodorodiia. Moskva, 1960. 24 p. (MIRA 14:11)

1. Moscow. Vystavka dostizheniy narodnogo khozyaystva SSSR.
(Podzol) (Soil fertility) (Tillage)

SAZANOV, Viktor Ivanovich, prof., doktor sel'khoz.nauk; GOLOVNEV, A.A., spets. red.; OZEROV, V.N., red.; GUREVICH, M.M., tekhn. red.

[Agricultural experimentation in plant growing and the methods used]Sel'skokhoziaistvennoe opytnoe delo v rastenievodstve i ego metodika. Moskva, Sel'khozizdat, 1962. 111 p.
(MIRA 16:2)
(Field experiments)

GOLOVNEV, F. D.

1455 Osobennosti vzaymodaystviya podvizhnogo sostava i puti pri avtomobil'noy vyvozke lesa v khlystach. L., 1945. 15 s. 20cm. (Leningr. ordena Lenina lesotekhn. akad. im. S.M. Kirova). 100 eks. Bespl. -(54-53121)

SO: Knizhnaya Letopis', Vol. 1, 1955

GOLOVNEV, F. D.

"Peculiarities of Vehicle-Road Interaction in Truck Transportation of Unhewn Lumber." Cand Tech Sci, Leningrad Order of Lenin Forestry Engineering Acad imeni S. M. Kirov, Leningrad, 1954. (KL, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational

SO: Sum. No 598, 27 Jul 55

GOLOVNEV, I. F. and M. A. RAUTAVIRTA.

Tochnaia goriachaia shtampovka melkikh detalei. Moskva, Mashgiz, 1949. 144 p.

(Precision drop forging of small machine parts.)

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

GOLOVKEV, I.F., inzhener.

Methods of standardizing the expenditure of metals in drop forging. (In: Ryzhkov, D.A., ed. Ekonomiia metallov v kuznechno-shtampovochnom proizvodstve. Moskva, 1953, p.14-37.) (MLRA 7:1)
(Forging) (Punching machinery)

GOLOVNEV, I.F., kandidat tekhnicheskikh nauk.

Forged steel billets for dies used in hot forging. Standartizatsiia no.6:34-36 N-D '56. (MLRA 10:1)
(Dies (Metalworking)--Standards)

GOLOVNEV, I.F., kand.tekhn.nauk; PANOV, A.A.; FEDOROV, F.F.; YUVACHEVA, M.Ts.; YELAGINA, T.A., tekhn.red.

[Press forging; bibliography with annotations for publications in 1957] Obrabotka metallov davleniem; annotirovannyi bibliograficheskii spravochnik literatury za 1957 god. Leningrad. No.1. [Heating and drop forging] Nagrev, kovka i goriachaia shtampovka. 1958. 132 p. (MIRA 13:2)

1. Leningradskiy dom nauchno-tekhnicheskoy propagandy.
(Bibliography--Forging)

PHASE I BOOK EXPLOITATION 892

Angervaks, A.I., Brin, I.D., Gil'denblat, S.N., Golovneva, M.A., Golovnev, Ivan Fedorovich, Kamnev, Petr Vladimirovich, Kutsovskiy, F.V., Plyatskiy, V.M., Sokolov, N.L.

Bezobloynaya shtampovka (Flashless Press-forming) Moscow, Mashgiz, 1958. 294 p. 7,000 copies printed.

Ed.(title page): Golovnev, I.F., Candidate of Technical Sciences; Reviewers: Stel'makov, S.M. Engineer, and Eduardov, M.S., Engineer; Ed.(inside book): Obolduyev, G.T., Engineer; Ed.of Publishing House: Chfas, M.A.; Tech. Ed.: Speranskaya, O.V.; Managing Ed. for literature on the technology of machine building (Leningrad Division of Mashgiz): Naumov, Ye.P., Engineer.

PURPOSE: The book is intended for engineering personnel and it may be useful to students of vtuzes and technical schools.

COVERAGE: The book presents the processes of press forming without flash in closed dies from steel and nonferrous alloys later called

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flashless press-forming. The following suggestions for mastering this process are made: technical and economical indices, rules for designing parts to be made by this process, determining heating regimes preventing scale formation, methods of designing and cutting blanks, determination of capacity of forging equipment, design and calculation of dies, and reference tables. Typical production examples are included (with calculation and drawings for dies) and new data on flashless press forming techniques abroad are presented. There are 32 references of which 21 are Soviet and 11 are English.

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GO/hcr
12-15-58

Card 5/5

GOLOVNEV, I.F.

AUTHOR: Golovnev, I.F., Candidate of Technical Sciences. 129-1-12/14

TITLE: Outline of Heating Regimes for Steel Taking into Consideration the Thickness of Scale, the Depth of Decarburisation and the Grain Dimensions (Naznacheniye rezhimov nagreva dlya stali s uchetom tolshchiny okaliny, glubiny obezuglerozhivaniya i razmerov zerna)

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, No.1, pp. 49 - 55 (USSR)

ABSTRACT: Efforts are being made to make the dimensions and shape of forgings, castings, etc. nearer to those of the finished component. In the case of forging, the most difficult problem is that of obtaining a high-quality surface after the stamping operation [Ref.1]. A high quality of the surface is ensured by preventing or limiting the scale formation and the decarburisation during the heating. Correlation and analysis of quantitative data of the dependenence of the thickness of the scale and the depth of decarburisation on the temperature and time of heating [Refs. 2, 4, 5, 6 and 7] have shown that these results cannot be used for elaborating heating regimes owing to the fact that in the published investigations, the interrelation between scale formation and decarburisation was not considered. Therefore, special experiments were carried out

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Outline of Heating Regimes for Steel Taking into Consideration the Thickness of Scale, the Depth of Decarburisation and the Grain Dimensions.

and, in these, the author found it necessary to study also the kinetics of grain growth on which the physical and mechanical properties of the component depend. A technique was developed which permits studying all these three processes on the same specimens. The experiments were made on steel specimens with increasing contents of carbon (steels 15, 40 and Y10A); for reference purposes, tests were also carried out on specimens of commercially-pure iron for which the laws of scale growth were repeatedly determined in earlier experiments. The ranges of annealing temperatures and annealing times were chosen to correspond with the heating conditions during hot-stamping and heat-treatment of steel. The growth of the scale thickness was determined from the loss of weight of the basic metal and not from the weight of the scale; after measuring the loss in weight, micro-cuts were made on the same specimens and from these, the depth of decarburisation and the grain size were determined. During the tests, the relative humidity of the laboratory atmosphere was also measured. The results have
Card2/5 confirmed earlier conclusions that the process of scale formation

Outline of Heating Regimes for Steel Taking into Consideration the Thickness of Scale, the Depth of Decarburisation and the Grain Dimensions.

of commercially-pure iron can be expressed by an exponential formula. However, due to the presence of carbon, the scale formation in steel is not in accordance with this relation and it is impossible to derive an analytical expression of these processes for steel. The experiments also showed that the natural fluctuations of the humidity of the atmosphere affect greatly the scale formation (see graph, Fig.1). None of the authors of earlier experiments paid attention to this fact, although it does explain the scattering in the values measured by other authors, for instance, Hudson and Rooney [Ref.7]. The graph, Fig.2, contains experimental data of various authors on the scale formation in air for commercially-pure iron and low-carbon steel at elevated temperatures and annealing times of one hour. In Fig.3, the dependence is plotted of the constants of the speed of scale formation on the moisture content of the air for the stainless steel 1X13 at 850 °C and a heating time of 25 to 32 hours as obtained by investigations carried out at Leningrad University (Leningradskiy Universitet) [Ref. 5]. The results show that the fluctuations in the humidity

Outline of Heating Regimes for Steel Taking into Consideration the Thickness of Scale, the Depth of Decarburisation and the Grain Dimensions.

of the atmosphere do have an enormous influence on the rate of scale formation. The main data obtained from these investigations are plotted in three diagrams of Fig.4; each of these diagrams consists of three parts relating to grain size, depth of scale formation and depth of visible decarburisation. By using these diagrams it is possible, for a known cross-section of the heated blank and a known type of heating equipment, to determine the heating time. From the scale formation curves, a heating temperature is chosen which corresponds to the determined heating time, but is lower than the maximum permissible value; the thus selected regime is checked from the point of view of depth of decarburisation and grain dimensions. After additional experiments relating to the influence of the initial decarburisation of the blank on the depth of decarburisation during the second heating, a method of determination of the total decarburisation can be worked out using the same diagrams. The here described results are already partly utilised in industry, mainly for heating in precision hot stamping. The obtained data on the influence of natural

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Outline of Heating Regimes for Steel Taking into Consideration the Thickness of Scale, the Depth of Decarburisation and the Grain Dimensions.

fluctuations of the humidity of the atmosphere on scale formation lead to the conclusion that it would be advisable to carry out tests on drying the air which is fed into the heating furnace in cases in which the components to be heated are isolated from the water vapour contained in combustion products. There are 4 figures and 7 references, 6 of which are Slavic.

AVAILABLE: Library of Congress.

Card 5/5

SOV/122-58-5-9/26

AUTHOR: [redacted], I.F., Candidate of Technical Sciences

TITLE: The Use of Extruded Tubes and Special Sections in Small Lot Production (Primeneniye pressovannykh trub i spetsial'nykh profiley v melkoseriynom proizvodstve)

PERIODICAL: Vestnik Mashinostroyeniya, 1958, Nr 5, pp 39 - 41 (USSR)

ABSTRACT: The advantages of using extruded tubes and sections of copper and aluminium alloys and of seamless steel tubes are discussed. Extruded alloy sections cost 15-25% more than rolled bars and sections. In small batch production, components with large bores can be either machined from tubular sections or forged before machining in stamping hammers, presses and horizontal forging machines. Some schemes to produce pierced gear blanks and upset tubular components on a horizontal forging machine are illustrated. The economics of tubular blanks are discussed with curves and tables. Figure 2 shows the cost in rubles of producing 135 x 95 mm dia. rings of 20 mm height in steel, brass and aluminium alloy by the seven methods of: 1) free forging; 2) hot pressing on a hydraulic press; 3) hammer forging; 4) pressing under a crank press; 5) machining from rolled bar; 6) forging in

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The Use of Extruded Tubes and Special Sections in Small Lot Production

a horizontal forging machine and 7) machining of extruded tube. All curves are plotted against production quantity ranging from 1 to 100 000. Below 50, machining from bar is invariably cheapest. Method 7) starts above 1 000 in steel, above about 100 in brass and aluminium alloy and remains the cheapest. The extrusion of steel has a big future. Figure 3 shows the cost of 140 mm dia. rings depending on the wall thickness factor, showing the ranges of economy for different production methods. There are 3 figures and 1 table.

Card 2/2 1. Metals--Extrusion

GOLOVNEV, I. F.

25(1) PHASE I BOOK EXPLOITATION SOV/1986

Tekhnologicheskiy spravochnik po kovke i ob"yemnoy shtampovke (Handbook on Open and Closed Die Forging) Moscow, Mashgiz, 1959. 966 p. 15,000 copies printed.

Ed. (Title page): M.V. Storozhev; Ed. (Inside book): S.B. Kirsanova, Engineer; Ed. of Publishing House: D.M. Oliner, Engineer; Tech. Ed.: T. F. Sokolova; Managing Ed. for Information Literature (Mashgiz): V.I. Krylov, Engineer.

PURPOSE: The handbook is intended for engineers and technicians working in forging and die forming shops and in engineering design bureaus. It may also be used by teachers and students of technical schools.

COVERAGE: The handbook contains information on processes of forging and [illegible] die forming as carried out on various kinds of forging and pressing machinery. Information is given on initial stock, making blanks, quality inspection of forgings and their heat treatment, and on engineering characteristics of basic machinery and mechanization equipment, on die making and on technical-economic indexes and engineering standardization. The authors state that problems of manufacture by forging and press forming which have only been discussed up to now in periodicals and special-ized literature are given in this handbook. No personalities are mentioned. There are 280 references, all Soviet.

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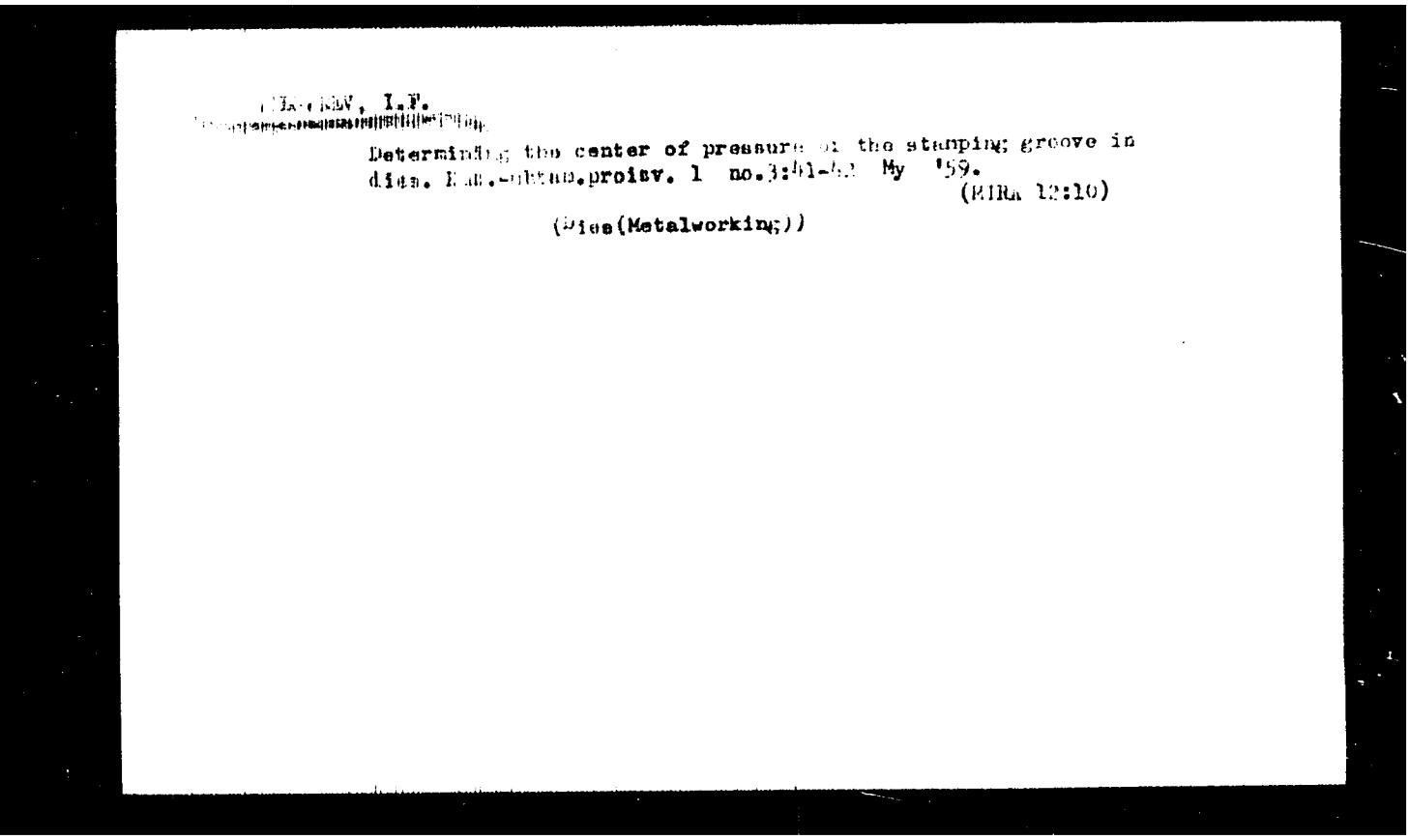

[illegible], I.F.

Determining the center of pressure of the stamping groove in dies. Kuz.-shtam.proizv. 1 no.3:41-42 My '59.
(MIRA 12:10)

(Dies(Metalworking))

GOLOVNEV, I.F.

Making large forgings in foreign countries by the upsetting method; a survey. Kuz.-shtam. proizv. 1 no.9:42-47 S '59. (MIRA 12:12)

(Forging)

GOLOVNEVA, Mariya Alekseyevna; ATROSHENKO, Aleksey Petrovich; KORNEYEV, D.M., kand. tekhn.nauk, retsenzent; RAKOSHITS, G.S., inzh., retsenzent; GOLOVNEV, I.F., kand. tekhn.nauk, red.; DENINA, I.A., red.izd-va; SHCHETININA, L.V., tekhn. red.

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(Forging)

GOLOVNEV, S.; GENKIN, A.; LEVIN, Ye.; FEYGIN, D.

Use of infrared rays. Zhil. stroi. no.9:28 '65.
(MCRA 18:11)

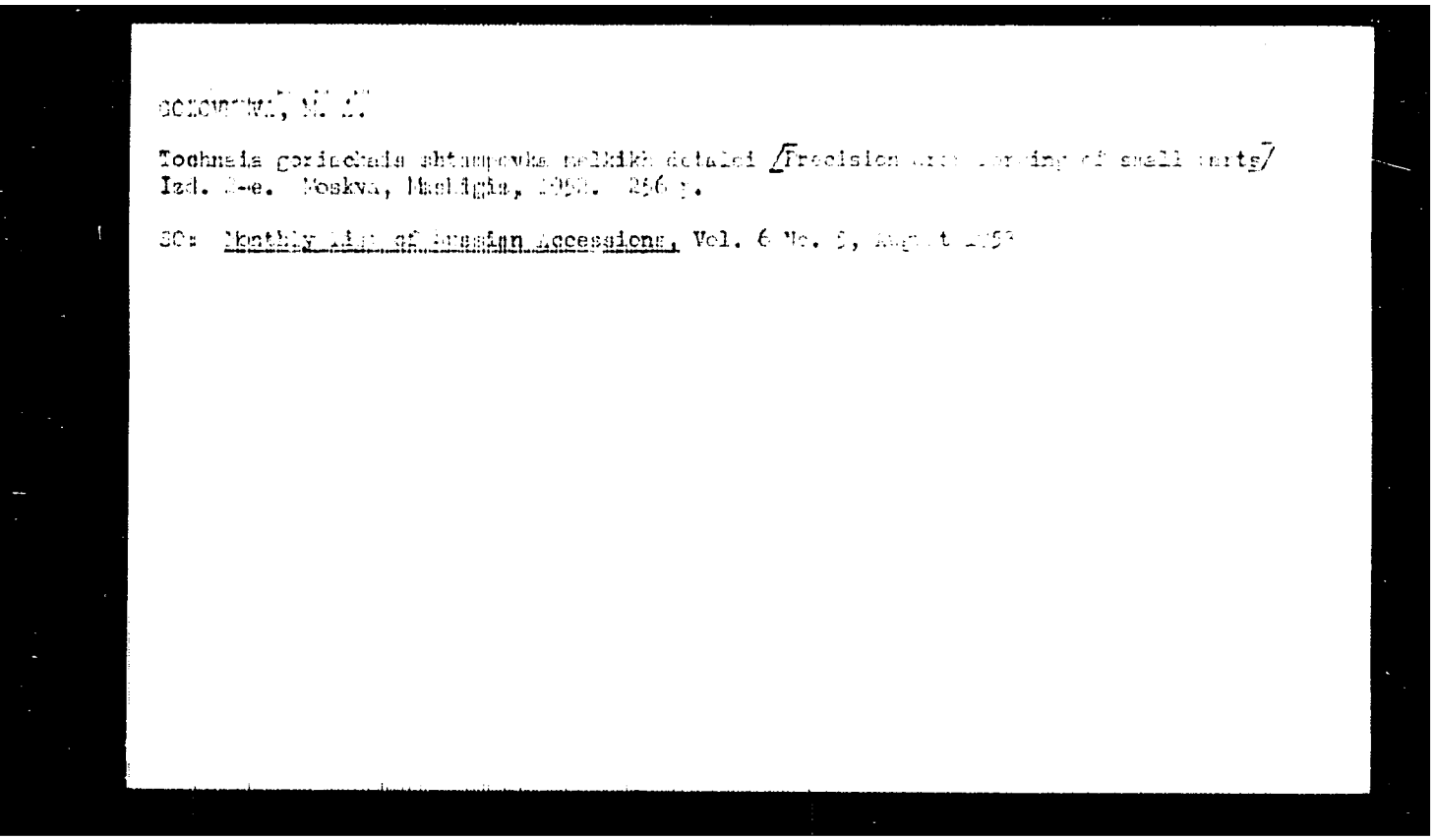
VOLKOV, B.A.; GOLOVNEV, V.M.; YASHUMOV, V.N.; SAMBUK, F.I., red.; SHIPKO, A.I., red.; MOROZOVA, Ye., red.; VARENIKOVA, V., tekhn. red.; STEPANOVA, N., tekhn. red.

[Soviet worker's manual] Spravochnik sovetskogo rabotnika. Minsk, Gos.izd-vo BSSR, 1962. 657 p. (MIRA 16:8)
(Labor laws and legislation--Handbooks, manuals, etc.)

GOLOVNEVA, L.F.

Occurrence of the tick Dermoglyphus minor (Horner, 1882) Trouessart 1886 in hens of the White Russian S.S.R. Dokl. AN BSSR 9 no.7:495-496 Jl '65. (MIRA 18:9)

1. Belorusskiy nauchno-issledovatel'skiy veterinarnyy institut.



[illegible], M. I.

Tochnaia gorichaia shtampovka melkikh detalei [Precision [illegible] forging of small parts] Izd. 2-e. Moskva, Mashgiz, 1952. 256 p.

SO: Monthly List of Russian Accessions, Vol. 6 No. 5, August 1953

GOLOVNEVA, M.A.

PHASE I BOOK EXPLOITATION 892

Angervaks, A.I., Brin, I.D., Gil'denblat, S.N., Golovneva, M.A., Golovnev, Ivan Fedorovich, Kamnev, Petr Vladimirovich, Kutsovskiy, F.V., Plyatskiy, V.M., Sokolov, N.L.

Bezobloynaya shtampovka (Flashless Press-forming) Moscow, Mashgiz, 1958. 294 p. 7,000 copies printed.

Ed.(title page): Golovnev, I.F., Candidate of Technical Sciences; Reviewers: Stal'makov, S.M. Engineer, and Eduardov, M.S., Engineer; Ed.(inside book): Obolduyev, G.T., Engineer; Ed.of Publishing House: Chfas, M.A.; Tech. Ed.: Speranskaya, O.V.; Managing Ed. for literature on the technology of machine building (Leningrad Division of Mashgiz): Naumov, Ye.P., Engineer.

PURPOSE: The book is intended for engineering personnel and it may be useful to students of vtuzes and technical schools.

COVERAGE: The book presents the processes of press forming without flash in closed dies from steel and nonferrous alloys later called

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flashless press-forming. The following suggestions for mastering this process are made: technical and economical indices, rules for designing parts to be made by this process, determining heating regimes preventing scale formation, methods of designing and cutting blanks, determination of capacity of forging equipment, design and calculation of dies, and reference tables. Typical production examples are included (with calculation and drawings for dies) and new data on flashless press forming techniques abroad are presented. There are 32 references of which 21 are Soviet and 11 are English.

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12-15-58

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GOLOVNEVA, Mariya Alekseyevna; ATROSHENKO, Aleksey Petrovich; KORNEYEV, D.M., kand. tekhn.nauk, retsenzent; RAKOSHITS, G.B., inzh., retsenzent; GOLOVNEV, I.F., kand. tekhn.nauk, red.; DENINA, I.A., red.izd-va; SHCHETININA, L.V., tekhn. red.

[Equipment and technology of drop forging]Oborudovanie i tekhnologiia goriachei shtampovki. Moskva, Mashgiz, 1962. 368 p. (MIRA 16:3)
(Forging)

TERENT'YEV, V.M.; GOLOVNEVA, M.B.

Physiological role of iodine in plants. Biul. Inst. biol. AN BSSR no.6:130-134 '61. (MIRA 15:3)
(PLANTS, EFFECT OF IODINE ON)

L 06356-67 EWT(1) GW

ACC NR: AR6013599 SOURCE CODE: UR/0269/65/000/011/0047/0048

AUTHORS: Godovnikov, N. V.; Smirnova, Ye. P. 25 13

TITLE: Calculation of the magnetic field of sunspots 12

SOURCE: Ref. zh. Astronomiya, Abs. 11.51.417

REF SOURCE: Izv. Krymsk. astrofiz. observ., v. 33, 1965, 86-91

TOPIC TAGS: solar magnetic field, sunspot, computer calculation

ABSTRACT: An attempt is made to calculate the magnetic field for a system of dipoles simulating a group of sunspots. The spot is considered as a section of a magnetic tube of length L and area S with the magnetic masses concentrated at the ends. The magnetic mass is defined by Gauss' law

$$m = \frac{1}{4\pi} \oint H dS .$$

The magnetic field of the system is found by adding vectorially the fields of the separate dipoles. The equations for the lines of force were integrated numerically on the "Minsk-1" electronic computer by the Euler method with variable steps. Maps are obtained for the flares of 1 April 1960 and 7 July 1958. The results agree with the Brockson formula with L = 1/4D, where D is the spot diameter. The calculated gradients near the zero point agree in order of magnitude with the measured, according to the laboratory model with L ≈ D. Bibliography of 5 citations. V. Obridko [Translation of abstract]

Card 1/1 UDC: 523.746 SUB CODE: 03, 09

GOLOVNIKOV, V., kand.tekhn.nauk; DUBOVOY, A., inzh.

On board the Chimkent they keep their work. Rech.transp. 23 no.11:8-9 N '64. (MIRA 18:3)

GOLOVNIKOV, N.I.

Drawing up charts for traffic on lock system waterways. Rech. transp. 16 no.8:12-16 Ag '57. (MIRA 10:11)
(Inland navigation) (Locks (Hydraulic engineering))

GOLOVNIKOV, V. I., Cand Tech Sci (diss) -- "Methods of improving the organization of movement of a fleet on the densely locked sections of rivers and canals". Gor'kiy, 1958. 16 pp (Gor'kiy Inst of Water Transport Engineers), 100 copies (KL, No 11, 1960, 132)

GOLOVNIN, G.Ya.

Transverse vibrations of a string of variable length. Dop.AN URSR no.5: 17-21 '49. (MLRA 9:9)

1.L'vivs'kiy filial Instytutu matematiki AN URSR. Predstaviv diysniy chlen AN URSR G.M.Savin.
(Vibration)

GOLOVNIN, G. Ya.

Dynamic calculation of chain conveyers. Nauch.zap.IMA AN URSR Ser. mashinoved. 4 no.3:117-128 '55. (MLRA 9:8)
(Conveying machinery)

SOV/124-57-3-3477

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 3, p 122 (USSR)

AUTHOR: Golovnin, G. Ya.

TITLE: Oscillations of Shafts With Friction Forces Taken Into Consideration. DK 534. 1 (Kolebaniya sterzhney s uchetom sil treniya. DK 534. 1)

PERIODICAL: Nauch. zap. L'vovsk. politekhn. in-ta, 1955, Nr 27, pp 109-116

ABSTRACT: Approximate solutions of differential equations are given for longitudinal oscillations of shafts in which the frictional forces are expressed by the relationship

$$S = \lambda F \left(\frac{\partial^2 u}{\partial x \partial t}\right)^{\nu+1}$$

An appropriate choice of the coefficient λ, in the opinion of the author, affords the possibility of expressing any kind of friction through that relationship.

V. G. Timoshenko

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SOV/124-57-4-3918

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 11 (USSR)

AUTHOR: Golovnin, G. Ya.

TITLE: Oscillations of a Load Suspended From a Rope of Variable Length Without Consideration of the Mass of the Rope (Kolebaniya gruza na kanate peremennoy dliny bez ucheta massy kanata)

PERIODICAL: Nauch. zap. L'vovsk. politekhn. in-t, 1955, Nr 31, pp 149-157

ABSTRACT: The problem reduces to the integration of a linear second-order equation with variable coefficients, for the solution of which the smallness-parameter method of Krylov-Bogolyubov is applied.

Yu. A. Mitropol'skiy

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SOV/122-59-3-7/42

AUTHOR: Golovnin, G.Ya., Candidate of Technical Sciences

TITLE: Determination of the Dynamic Forces in Endless Chains (Opredeleniye dinamicheskikh usiliy v tsepnykh konturakh)

PERIODICAL: Vestnik Mashinostroyeniya, 1959, Nr 3, pp 25-27 (USSR)

ABSTRACT: In a previous study by the same author, it was shown that, in a conveyor chain with guiding rails for the chain spans between the driving and driven sprockets, the oscillations of the chain itself can be adequately represented as those of a system with a single degree of freedom. The angular misalignment between the driving and driven sprockets obeys a single equation of vibratory motion, provided appropriate percentages of the chain mass are associated with the driving and the driven sprockets. Generally valid values for these percentages have given satisfactory results. It has been stated that older methods have tended to overestimate the dynamic load peaks. In the more recent study, chains without guide rails have been examined. Although the effective stiffness of each chain span now depends not only on the longitudinal elasticity of the chain, but also on its catenary effect, when the sagging is small, an explicit relation can be established

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between the relative sag and the effective stiffness. By this means, the system becomes one with a single degree of freedom and has a single natural frequency. The exciting frequency is found from the number of teeth of the driving sprocket. The forced vibrations depend on the proximity of resonance. A simple experimental method is suggested to determine the effective stiffness and the effective inertia. The driving sprocket is locked and the driven sprocket given an initial turn against the chain stiffness. After releasing the initial deflection, a free vibration takes place, whose natural period is measured. The driven sprocket has then an additional moment of inertia attached to it. Repeating the procedure, another free oscillation will result with a new value of the natural period. The effective inertia and effective stiffness of the substitute single degree of

Determination of the Dynamic Forces in Endless Chains

freedom system can be found with the help of a formula stated in the paper, containing the two natural periods and the additional moment of inertia attached to the driven sprocket.
There are 1 figure and 5 Soviet references.

GOLOVNIN, Grigoriy Yakovlevich; BONDARCHUK, A.S., otv. red.; GONCHAR, M.F., otv. red.; LIBERMAN, S.S., red. izd-va; ANDREYEV, S.P., tekhn. red.

[Dynamics of cables and chains] Dinamika kanatov i tsepei. Khar'kov, Metallurgizdat, 1962. 124 p. (MIRA 15:6)
(Chains) (Cables)

GOLOVNIN, G. [Holovnin, H.], inzh.

Experimental studies of the bearing capacity of eccentrically compressed prestressed concrete posts. Bud.mat.i konstr. 4 no.4:8-12 Jl-Ag '62. (MIRA 15:8)
(Prestressed concrete--Testing)

ZAYMOVSKIY, Aleksandr Semenovich; KALASHNIKOV, Vyacheslav Vyacheslavovich; GOLOVNIN, Igor' Stefanovich; PANASENKOVA, Ye.I., red.; MAZEL', Ye.I., tekhn. red.

[Heat-yielding elements of nuclear reactors]Teplovydeliaiushchie elementy atomnykh reaktorov. Moskva, Gosatomizdat, 1962. 369 p. (MIRA 15:9)
(Nuclear reactors)

ZAYMOVSKIY, Aleksandr Semenovich; KALASHNIKOV, Vyacheslav Vyacheslavovich; GOLOVNIN, Igor' Stefanovich; PANASENKOVA, Ye.I., red.; MAZEL', Ye.I., tekhn. red.

[Fuel elements of atomic reactors]Teplovydeliaiushchie elementy atomnykh reaktorov. Moskva, Gosatomizdat, 1962. 369 p. (MIRA 15:10)

(Nuclear fuels)

SHISHKIN.B K., redaktor; KUPREVICH, V.F., redaktor; LARIN, I.V.zaslush. deyat. nauki, prof; redaktor; VASIL'CHENKO, I.T., professor, doktor biologicheskikh nauk, redaktor; GOLOVNIN, M.I., redaktor; MOLODTSOVA, N.G., tekhnicheskiy redaktor.

[Proceedings of the First All-Union Conference of Botanists and Plant Breeders, March 24-27, 1950] Materialy Pervogo Vsesoiuznogo Soveshchaniia botanikov i selektsionerov 24-27 marta 1950 g. Redaktsionnaia komissia: B.K. Shishkin, i dr. Moskva, Izd-vo Akademii nauk SSSR. Vol. 3. 1954. 119 p. (MLRA 8:7)

1. Chlen-korrespondenty AN SSSR (for Shishkin, Kuprevich)
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GOLOVNIN, M.I.

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[Flora of Murmansk Province] Flora Murmanskoi oblasti. Moskva, Izd-vo Akad. nauk SSSR, No.1. 1953 254 p., maps. No.2. 1954. 238 p., maps. (MLRA 8:7)

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BORISOVA, A.G.; SHISHKIN, B.K., redaktor; GOLOVNIN, M.I., redaktor;
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Flora Zabaikal'ia. no.6:546-663 '54. (MLRA 8:6)

1. Chlen-korrespondent Akademii nauk SSSR (for Shishkin)
(Transbaikalia--Leguminosae)

GOLOVKIN, N.I.

YUNATOV, A.A.; KHOKHRYAKOV, V.S., akademik, glavnyy redaktor; LAVRENKO, Ye.M., otvetstvennyy redaktor vypuska; SHUL'TSHENKO, I.F.; GOLOVKIN, N.I., redaktor izdatel'stva; ARONS, R.A., tekhnicheskiy redaktor.

Forage plants of pastures and meadows of the Mongolian People's Republic. Trudy Mong.kom. no.56:3-351 '54. (MLRA 7:11)

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[Career of a chemist; sketches of the past] Na puti nauchnogo rabotnika-khimika; ocherki iz proshlogo. Moskva, Izd-vo Akademii nauk SSSR, 1955. 106 p. (MLRA 9:2)

1. Chlen-korrespondent AN SSSR (for Nikitin)
(Chemists)

ZINOVA, A.D.; SAVICH, V.P., professor, zasluzhennyy deyatel' nauki RSFSR, redaktor; GOLOVNIN, M.I., redaktor; KRUGLIKOVA, N.A., tekhnicheskiy redaktor.

[Guide to red algae of the northern seas of the U.S.S.R.] Opredelitel' krasnykh vodoroslei severnykh morei SSSR. Moskva, Izd-vo Akademii nauk SSSR, 1955. 219 p. (MIRA 8:4)
(Russia, Northern--Algae)

PROSHKINA-LAVRENKO, A.I.; SAVICH, V.P., professor, redaktor; GOLOVNIN, M.I., redaktor; KIRNARSKAYA, A.A., tekhnicheskiy redaktor.

[Diatomaceous plankton algae of the Black Sea] Diatomovye vodorosli planktona Chernogo moria. Moskva, Izd-vo Akademii nauk SSSR, 1955. 222 p. (MLRA 8:12)

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